AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

# TEST REPORT OF FINE AGGREGATE

Format No: CP/TF/01

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2019-10-26-46** |
| **Customer** | : | Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore. |
| **Address** | : | Dasarahalli Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Construction of CC Drain and Providing CC Slab at Balaji Scan Center to Park in Bagalagunte Ward no 14. |
| **Agency** | : | Sri.Jayanna, #889, 1st Cross, Muneshwara Nagara, Bangalore-73. |
| **Customer's Reference** | : | EE/DD/WO/402/19-20 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 27-09-2019 |
| **Sample Type** | : | Fine Aggregate |
| **Reference to BIS codes** | : | IS 383 : 2016 (Specification for Coarse and fine Aggregates)<br>IS: 2386 :1963(Part - 1, 3) RA2012<br>IS 2386 Part 1: Particle Size and Shape<br>IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption |
| **Date of test** | : | 27-09-2019 |
| **Total weight taken** | : | 1000 grams |

**Date: 30-09-2019**

| Sl.no | Sieve Size | Weight Retained (gms) | Cumulative Weight Retained (gms) | % Cumulative Weight Retained | % Passing | Requirement as per IS 383:2016 | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Grading Zone I | Grading Zone II | Grading Zone III | Grading Zone IV |
| 1 | 10 mm | 0 | 0 | 0.0 | 100.0 | 100 | 100 | 100 | 100 |
| 2 | 4.75 mm | 27 | 27 | 2.7 | 97.3 | 90-100 | 90-100 | 90-100 | 95-100 |
| 3 | 2.36 mm | 55 | 82 | 8.2 | 91.8 | 60-95 | 75-100 | 85-100 | 95-100 |
| 4 | 1.18 mm | 239 | 321 | 32.1 | 67.9 | 30-70 | 55-90 | 75-100 | 90-100 |
| 5 | 600 micron | 205 | 526 | 52.6 | 47.4 | 15-34 | 35-59 | 60-79 | 80-100 |
| 6 | 300 micron | 203 | 729 | 72.9 | 27.1 | 5-20 | 8-30 | 12-40 | 15-50 |
| 7 | 150 micron | 191 | 920 | 92.0 | 8.0 | 0-10 | 0-10 | 0-10 | 0-15 |
| 8 | Pan | 80 | 1000 | 100.0 | 0.0 | --- | --- | --- | --- |

**Result :The tested Sample Conforms to Grading Zone II**



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# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

# TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2019-10-26-46

Date: 30-09-2019

## PHYSICAL PROPERTIES

| Sl.no | Tests | Result | Requirements as per IS 383:2016 |
|---|---|---|---|
| 1 | Water Absorption(%) | 1.5 | - |
| 2 | Specific Gravity | 2.59 | - |
| 3 | Material finer than 75 micron(%) | 6.9 | Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10% |

**Note:**
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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# TEST RESULTS OF STEEL

Format No: CP/TF/01

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2019-10-26-46** |
| **Customer** | : | Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore. |
| **Address** | : | Dasarahalli Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Construction of CC Drain and Providing CC Slab at Balaji Scan Center to Park in Bagalagunte Ward no 14. |
| **Agency** | : | Sri.Jayanna, #889, 1st Cross, Muneshwara Nagara, Bangalore-73. |
| **Customer's Reference** | : | EE/DD/WO/402/19-20 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 28-09-2019 |
| **Sample Type** | : | Sunvik |
| **Reference to BIS codes** | : | IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012. |
| **Date of test:** | : | 28-09-2019 |

**Date: 30-09-2019**

| Sl.No | Identification of sample | Grade of the sample | Diameter of the steel bar | Weight of the sample | Yield stress | Tensile strength | Elongation | Bend test | Rebend test |
|---|---|---|---|---|---|---|---|---|---|
| | | | (mm) | (kg/m) | (N/mm2) | (N/mm2) | (%) | | |
| 1 | Sunvik | Fe500 | 8 | 0.391 | 512 | 652 | 20.0% | Satisfactory | Satisfactory |
| 2 | Sunvik | Fe500 | 10 | 0.616 | 528 | 672 | 20.0% | Satisfactory | Satisfactory |
| 3 | Sunvik | Fe500 | 12 | 0.888 | 544 | 668 | 20.0% | Satisfactory | Satisfactory |

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ಬ ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಂಗಲಗುಂಟೆ. ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

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**Authorized Signatory**
**Quality Manager**

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Format No: CP/TF/01

# TEST REPORT OF PRECAST COVER SLAB

**Date: 09-10-2019**

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2019-10-26-46** |
| **Customer** | : | Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore. |
| **Address** | : | Dasarahalli Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Construction of CC Drain and Providing CC Slab at Balaji Scan Center to Park in Bagalagunte Ward no 14. |
| **Agency** | : | Sri.Jayanna, #889, 1st Cross, Muneshwara Nagara, Bangalore-73. |
| **Customer's Reference** | : | EE/DD/WO/402/19-20 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 04-10-2019 |
| **Sample Type /Size** | : | Precast Cover Slab(230mm) |
| **Reference to BIS codes** | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete |
| **Date of test** | : | 04/10/2019 |

| Sl. No. | Identification Mark | Diameter of the core | Height of the core | Weight of the core | Area | Failure Load | Core Compressive strength | Corrected Cylinder Compressive strength | Equivalent Cube Compressive strength |
|---|---|---|---|---|---|---|---|---|---|
| | | (mm) | (mm) | (kg) | (Sq.mm) | (KN) | ($N/mm^2$) | ($N/mm^2$) | ($N/mm^2$) |
| 1 | Cover Slab-1 | 185.51 | 230.48 | 3.112 | 27024 | 220.9 | 8.2 | 7.6 | 9.5 |
| 2 | Cover Slab-2 | 185.49 | 230.52 | 3.120 | 27018 | 222.3 | 8.2 | 7.7 | 9.6 |
| 3 | Cover Slab-3 | 185.50 | 230.51 | 3.114 | 27021 | 221.5 | 8.2 | 7.6 | 9.5 |

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# TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 09/10/2019

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2019-10-26-46** |
| **Customer** | : | Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore. |
| **Address** | : | Dasarahalli Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Construction of CC Drain and Providing CC Slab at Balaji Scan Center to Park in Bagalagunte Ward no 14. |
| **Agency** | : | Sri.Jayanna, #889, 1st Cross, Muneshwara Nagara, Bangalore-73. |
| **Customer's Reference** | : | EE/DD/WO/402/19-20 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 03-10-2019 |
| **Customer ID** | : | Drain Bottom Slab Concrete |
| **Sample Type /Size** | : | 150X150X150 mm |
| **Sample grade/Age** | : | M20 / 7 Days Compressive Strength |
| **Reference to BIS codes** | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5 |
| **Date of test** | : | 09/10/2019 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Bottom Slab Concrete | M20 | 30/09/2019 | 09/10/2019 | 151.79 X 150.12 X 151.85 | 22788 | 8.351 | 430.7 | 18.9 | 18.7 |
| 2 | Drain Bottom Slab Concrete | M20 | 30/09/2019 | 09/10/2019 | 150.14 X 150.12 X 151.24 | 22539 | 8.852 | 408.2 | 18.1 | |
| 3 | Drain Bottom Slab Concrete | M20 | 30/09/2019 | 09/10/2019 | 150.90 X 149.28 X 150.95 | 22526 | 8.031 | 427.1 | 19.0 | |

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Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : CP-2019-10-26-46 **Date: 09/10/2019**

**Customer** : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

**Address** : Dasarahalli Sub Division, BBMP, Bangalore.

**Project Name** : Construction of CC Drain and Providing CC Slab at Balaji Scan Center to Park in Bagalagunte Ward no 14.

**Agency** : Sri.Jayanna, #889, 1st Cross, Muneshwara Nagara, Bangalore-73.

**Customer's Reference** : EE/DD/WO/402/19-20

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 03-10-2019

**Customer ID** : Drain Bottom Slab Concrete

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M20 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 09/10/2019

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Bottom Slab Concrete | M20 | 30/09/2019 | 09/10/2019 | 151.02 X 150.43 X 151.54 | 22718 | 8.351 | 428.0 | 18.8 | 18.6 |
| 2 | Drain Bottom Slab Concrete | M20 | 30/09/2019 | 09/10/2019 | 151.63 X 151.60 X 149.01 | 22987 | 8.852 | 419.9 | 18.3 | |
| 3 | Drain Bottom Slab Concrete | M20 | 30/09/2019 | 09/10/2019 | 149.54 X 151.73 X 149.70 | 22689 | 8.031 | 426.0 | 18.8 | |

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